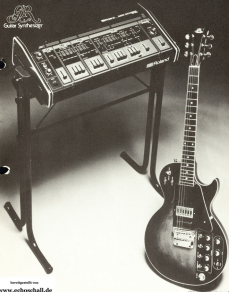


 Roland

PARAPHONIC

Guitar Synthesizer

GS-500
GR-500



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The GS500/GS5000 is the first guitar synthesizer in the world—it has 200,000. Converted to a making synthesizer GS5000, GS5000 copies the following features and characteristics:

1. A synthesizer for guitars, it can be played the same way as an ordinary electric guitar.
2. It is a polyphonic system synthesizing five sections: guitar, polysynthesizer, bass, solo melody and external synthesizer. They can be played simultaneously thereby producing sounds in unique modes.
3. Since each section has its own controls, a high degree of freedom, versatility and expanded sound dimension is enjoyed.
4. It can be used both in live performance or for multiple recording with ensembles of any genre or style.



Control knobs



Specialty designed pickup



Guitar/synthesizer changeover switch and volume control



Connector

Poly-Ensemble Volume-ON/OFF Switch

For volume and ON/OFF control of poly-ensemble section.

Bass Volume-ON/OFF Switch

For volume and ON/OFF control of bass.

External Synthesizer Volume-ON/OFF Switch

For volume and ON/OFF control of external synthesizer.

Solo-Melody Volume-ON/OFF switch

For volume and ON/OFF control of solo and melody.

Master Volume Control

For control of master volume.

Poly-Ensemble/Bass/Solo-Melody Switches

Used to select appropriate mode for mutual mood after providing sound volume on GS500. Individual ON/OFF control for each mode.

Guitar Volume/Tone Control

Identical to those on conventional electric guitars.

Equalizer Switch

Like a pick-up selector switch, the equalizer switch allows selection of soft or hard or accurate notes.

Connector

For connecting GS500 to GS5000.

Humbucking Pick-up

GFT original double coil pick-up.

Divided Pick-up

Specialty developed for GS500. One pick-up for each string for a total of six.

Bridges and Tail Piece

Both specially designed for GS500.

Guitar/Synthesizer Changeover Switch

Changeover switch for humbucking pick-up and divided pick-up is mounted on GS500. Used to select between-ordinary electric guitar and synthesizer notes or to mix the two when set at its center position.

Permanent ON/OFF Switch

Permanent ON/OFF switch of an external synthesizer.

Remote Switch

ON/OFF switch for solo-melody section, VCF and LFO modulation. Can also be used for ON/OFF control of sound effects from external amplifier (phrases or events) when connected to Remote GUIT ON synthesizer's rise point.

Patch Cord

For connecting GS500 to GS5000.



- Specialty Designed Neck
- Guitar/Synthesizer Changeover Switch
- Permanent ON/OFF Switch
- Remote Switch
- Humbucking Pickup
- Divided Pickup
- Bridges, Tailpiece
- Polysynthesizer Volume, ON/OFF Switch
- Guitar Volume Control
- Bass Volume, ON/OFF Switch
- Guitar Tone Control
- Solo Melody Volume, ON/OFF Switch
- Equalizer
- External Synthesizer Volume, ON/OFF Switch
- Master Volume
- Connector

Guitar Synthesizer

The revolutionary Roland GR500 creates sounds which no other stringed instrument can create. Basically, the unit is composed of 5 independent sound-producing sections, each with its own output which can be directly connected to an independent amplifier. There are also three auxiliary outputs which can be used in two individual sections. A 100W DWT is also provided which mixes output from all sections for amplification by a single amplifier. The unit is equipped with a headphone jack for private monitoring and master controls to compensate for individual differences in picking style.

GR500 Control Panel

Threshold

Electronically compensates for different picking intensities, e.g. finger picking, to maintain uniform sound levels.

Output Selector Switch

For selecting the output from individual sections and the desired output channel.

Guitar Section

Used to produce ordinary guitar notes. Tone quality (timbre) can be modified by varying the equalizer frequency volume. When guitar volume is increased, a LED lights to indicate guitar section is in operation.

Poly-Ensemble Section

Consists of an ensemble generator with separate controls for attack, decay and sustain and four mixing matrix transmitters, will create, brass, strings. Can produce string notes such as violin, brass ensembles, handchord and even the human voice. When guitar volume is increased, a LED lights to indicate this section is in operation.

GR500 Rear Panel

Output Jacks

Consisted of output selector switch on front panel, these jacks allow selective input from the five sections into three output channels. This allows exact matching of individual sections to proper amplifiers, e.g. bass section to bass amplifier.

External Synthesizer Control Jack

By connecting an external synthesizer to this jack, it can be controlled by the GR500.

External Synthesizer Input Jack

Used for connection to output of external synthesizer.

Radio-Melody Output Jack (R DWT/10 DWT)

Allows output of "lead tones" regardless of control settings. Can also be used with external synthesizers.

GR-500



Bass Section

This section incorporates the "lead note-priority system" for determining the note of the previously picked string when a note is played on another string to enable "double playing". This system uses a string selector which can be adjusted to apply the system to all strings, 1/2/3/4/5/6, 1 strings, 4/5/6, or 7 strings. L/R, 400Hz envelope generator, soft/hard voice mixer, gain/volume control and decay switch allow simulation of bass bowing, note notes etc. A 2-position touch sensitive switch allows resonance effect.

The Lead Note Priority System is designed to take out the last picked note to suppress the succeeding note in down-stroke picking. For example, when No. 3 string is picked after picking the No. 4 string, the note produced by the No. 3 string is suppressed at the exact moment the No. 4 string is picked. The note produced by the No. 3 string will then in turn be suppressed as

soon as the No. 4 string is picked. When the string selector switch is set to "1-4" the notes of the last picked string will be dampened on all six strings. When set to "4-5-6", only strings No. 4, No. 5 and No. 6 will be dampened.

Solo-Melody Section

This section will play much like a conventional keyboard synthesizer and can be used with the Lead Note Priority System. The electronic controls allow free creation of melodic sounds from clear solo notes to special effects such as "furry cat". When guitar volume is increased, a LED lights to show this section is in operation.

External Synthesizer Section

When connected to an external synthesizer (such as Roland's System 700, System 1000, 1010/1020 or GR-5L, even greater opportunities for creative sound become available.



VCF Pedal Control Jack

Used for connection of Foot Volume Pedal (No. 10) for VCF frequency control to produce "bass" effect.

Remote Jack

Used for connection with remote control jack for ON/OFF control of special amplifier effects (reverb, vibrato, tremolo, etc.) with use of corresponding control on GR-500.

External Input Jack

Used to connect conventional electric guitar for colorful sound production throughout the solo-melody section.

From Guitar

For connecting GR500 (guitar unit) to GR500 (synthesizer unit.)

Specifications

GS-500

SYNTHESIZER SECTION

Gate/Synthesizer Changerover Switch
Hold ON/OFF Changerover Switch
Polarity ON/OFF Changerover Switch
Polyensemble Volume Control
Polyensemble ON/OFF Changerover Switch
Bass Volume Control
Solo Melody Volume Control
Solo Melody ON/OFF Changerover Switch
External Synthesizer Volume Control
External Synthesizer ON/OFF Changerover Switch

GUITAR SECTION

Volume Control
Tone Control
Equalizer
Master Volume Control

Humbucking Pickup
Coilout Pickup
Threshold

Specifications

GR-500

GUITAR SECTION

Equalizer Level ON/OFF Changerover Switch
Equalizer Frequency Volume

POLYENSEMBLE SECTION

Working Volume, Wood, Soft Lead, Brass, Strings, Envelope Generator, Attack/Decay, Sustain

BASE SECTION

Working Volume, Percussion, Soft, Hard, Decay LONG/SHORT Changerover Switch, String Selector Switch 1-4/4, 5, 6/5, 8,
Touch Sensor Changerover Switch 21/OFF, Envelope Generator, Attack, Decay, Sustain

SOLO MELODY SECTION

Pulse Width Modulation, Pulse Width Modulation Changerover Switch, LFO Manual/Envelope, Mixer HEAT, F, LUT, F, AL, Polyensemble, VCF Freq, Performance, LFO Frequency, Envelope Generator, Attack, Decay, Sustain, Modulation, Envelope, LFO, Pitch Follows, Pitch Follows/Pedal Control Changerover Switch, VCA, Initial Gain, Envelope, Touch Sense Changerover Switch 21/OFF

EXTERNAL SYNTHESIZER SECTION

Transpose Changerover Switch 2/RT+1/RT, 5, 5/RT, 5, 5/RT, 5, 5/RT+1/RT, Polyensemble Time, Headphone Jack, Headphone Level Volume

Specifications subject to change without notice.

